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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO. 8668	
10/774,269	02/06/2004	Yury Shkolnikov	14227		
7590 09/08/2004			EXAMINER		
LISA M. SOLTIS			TRUONG, THANH K		
ILLINOIS TOC	L WORKS INC.				
3600 WEST LAKE AVENUE			ART UNIT	PAPER NUMBER	
GLENVIEW, IL 60025			3721		

DATE MAILED: 09/08/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

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		Application No.	Applicant(s)	//	10
Office Action Summary		10/774,269	SHKOLNIKOV ET	îAL. ∜	J
		Examiner	Art Unit		
		Thanh K Truong	3721		
Period fo	The MAILING DATE of this communications Reply	on appears on the cover sheet w	vith the correspondence ac	ldress	
A SH THE - Exte after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR F MAILING DATE OF THIS COMMUNICAT nsions of time may be available under the provisions of 37 C SIX (6) MONTHS from the mailing date of this communicati e period for reply specified above is less than thirty (30) days to period for reply is specified above, the maximum statutory tre to reply within the set or extended period for reply will, by reply received by the Office later than three months after the ed patent term adjustment. See 37 CFR 1.704(b).	ION. CFR 1.136(a). In no event, however, may a on. s, a reply within the statutory minimum of the period will apply and will expire SIX (6) MC at the cause the application to become A	a reply be timely filed irty (30) days will be considered timel DNTHS from the mailing date of this c ABANDONED (35 U.S.C. § 133).	ly. :ommunic	cation.
Status					
1)🖂	Responsive to communication(s) filed on	06 February 2004.			
2a) <u></u>	This action is FINAL . 2b)⊠	This action is non-final.			
3)	Since this application is in condition for all	llowance except for formal ma	tters, prosecution as to the	e merif	ts is
	closed in accordance with the practice ur	nder <i>Ex parte Quayle</i> , 1935 C.	D. 11, 453 O.G. 213.		
Disposit	ion of Claims				
5)□ 6)⊠ 7)□	Claim(s) 1-19 is/are pending in the application of the above claim(s) is/are with Claim(s) is/are allowed. Claim(s) 1-19 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and claim(s) are subject.	thdrawn from consideration.			
Applicat	on Papers				
9)[The specification is objected to by the Exa	aminer.			
10)[The drawing(s) filed on is/are: a)] accepted or b) ☐ objected to	by the Examiner.		
	Applicant may not request that any objection to	= : :			
	Replacement drawing sheet(s) including the c				
11)[The oath or declaration is objected to by t	he Examiner. Note the attache	ed Office Action or form P	10-15	2.
Priority (ınder 35 U.S.C. § 119				
a)	Acknowledgment is made of a claim for for All b) Some * c) None of: 1. Certified copies of the priority docu 2. Certified copies of the priority docu 3. Copies of the certified copies of the application from the International Beet the attached detailed Office action for	ments have been received. ments have been received in a e priority documents have bee sureau (PCT Rule 17.2(a)).	Application No n received in this National	Stage	;
Attachmen	• •				
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-94		Summary (PTO-413) (s)/Mail Date		
3) 🔯 Infon	nation Disclosure Statement(s) (PTO-1449 or PTO/5 r No(s)/Mail Date		Informal Patent Application (PTG) -152)	

DETAILED ACTION

Claim Rejections - 35 USC § 112

- 1. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 2. Claims 7 and 8 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 7 recites: "at least one shock-absorbing member is freely slidable in said track", but claim 8 recites: "at least one shock-absorbing member is secured to one of said probe assembly". It appears that the terms "freely slidable" and "secured" are contradicted each other. It is unclear is the shock-absorbing member "freely slidable" or "secured".

Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 4. Claims 1 and 17 are rejected under 35 U.S.C. 102(b) as being aniticipated by Wagdy (4,483,473).

Wagdy discloses (figures 8 and 9) an apparatus comprising:

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a cylinder body 20;

a reciprocating probe assembly 20, 30, 50 slidably mounted to the cylinder body between a first, extended position and a second, retracted position, the probe assembly and configured for contacting a workpiece; and

at least one shock-absorbing member 40 operationally associated with at least one of the cylinder body and probe assembly for reducing shock load generated during operation of the tool (column 3, lines 65-67); and

a single spring 56 disposed between the probe assembly and the cylinder body and configured for biasing the probe assembly into the first position (as in claim 17).

5. Claims 1-15, 17 and 18 are rejected under 35 U.S.C. 102(b) as being aniticipated by Nikolich (5,197,646).

Nikolich discloses an apparatus comprising:

a cylinder body 30;

a reciprocating probe assembly 80 slidably mounted to the cylinder body between a first, extended position and a second, retracted position, the probe assembly and configured for contacting a workpiece; and

at least one shock-absorbing member 110 operationally associated with at least one of the cylinder body 30 and probe assembly 80 for reducing shock load generated during operation of the tool (figures 2 and 4).

Nikolich further discloses: the probe assembly includes at least one arm portion 100 configured for sliding relationship relative to the cylinder body, the at least one

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shock-absorbing element 110 disposed between the at least one arm 100 and a corresponding element of the cylinder body 30 for transmitting loads from the probe assembly to the cylinder body;

a substantially perpendicular lip 102 at an upper end for contacting the at least one shock-absorbing element;

the cylinder body defines a track for the slidable relative movement of the probe assembly, and the at least one shock-absorbing member is configured for slidable movement in the track (figures 2 & 4 show the shock-absorbing member 110 moves between arm 100 and cylinder body 30 and the adjacent fins defines the track);

at least one tab 106 for defining an upper limit of movement of the probe assembly; at least one shock-absorbing member is configured for common travel with the probe assembly to the tab (figures 2, 4 & 5); shock-absorbing member is sliding freely on the track and is secured to one of the probe assembly and the tab; shock-absorbing member is configured to be substantially complementary with the path; and is generally cylindrical in shape;

the shock-absorbing member is configured for reducing load forces generated in a combustion chamber and being configured to have sufficient rigidity and resilience;

and Nikolich further discloses (figures8 & 9):

a cylinder body 204;

a reciprocating probe assembly 220 slidably mounted to the cylinder body between a first, extended position (figure 10) and a second, retracted position (figure 9), the probe assembly and configured for contacting a workpiece; and

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a single spring 230 disposed between the probe assembly 220 and the cylinder body 204 and configured for biasing the probe assembly into the first position (as in claim 17); the single spring is a conical spring; and a retaining ring 216 (figure 8).

Claim Rejections - 35 USC § 103

- 6. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 7. Claims 16 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Nikolich (5,197,646).

As discussed above in paragraph 5 of this office action, Nikolich discloses the claimed invention, in which the larger diameter of the conical spring is mounted to the end of the cylinder body 204 and the smaller diameter end is mounted to the retaining ring which is connected to the probe assembly 220.

Applicant's conical spring larger diameter end mounted to retaining ring (which connected to the cylinder body) and a smaller diameter end is mounted to the probe assembly (as recited in claims 16 and 19). However, it appears that Nikolich's arrangement of the conical spring would perform equally well. Accordingly, the conical spring arrangement of the Applicant is deemed to be a design consideration which fails to patentably distinguish over the prior art of Nikolich.

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Conclusion

8. The prior art made of record and not relied upon is considered pertinent to

applicant's disclosure.

9. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Thanh K Truong whose telephone number is (703) 605-

0423. The examiner can normally be reached on Mon-Thurs from 8:00 AM to 6:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Rinaldi I Rada can be reached on (703) 308-2187. The fax phone number

for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

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you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

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August 30, 2004.

Rinaldi I. Rada

Supervisory Patent Examiner

Group 3700